SARA SKYWAVES

W5SRA

October 2020

MY CORNER OF THE SHACK

By Greg Kent, KK6AXF

It's October already, wow! Last month the Board was elected with just John W5JWS and my self swapping seats. Many Thanks, AG5PM (Rich Lakin) or KI5DDX (Jeff Feldman) of the elections committee. As a reminder, our board members for 2020 and 2021 are Greg Kent (KK6AXF)President, John Smyder (W5JWS) Vice President, Johnnie Young (KG5CQO) Secretary, David Mandala (KG5WFS) Treasurer, John Briggs (KC6TVF) Public Information Officer, Steve Harbin (W5SOT) Newsletter Editor, Mark Mantooth (KI5CYA) Director at Large.

Join us or renew today! You can join or renew on-line at our "How To Join" on our website and then head to the bottom of the page and look for "Fill out and pay via our On-Line Membership Application Form".

Complete the required fields so we have your most current information and then proceed to the payment page where you can pay with a debit or credit after submitting your application. If you choose do download, print, complete and mail your application and payment, please remember that we will need your check-in the PO Box (PO Box 1794, Wylie, TX 75098)

Why am I a HAM? There are lots of reasons to become a ham. Amateur Radio as defined by ARRL. "Amateur Radio (ham radio) is a popular hobby and service that brings people, electronics, and communication together.

People use ham radio to talk across town, around the world, or even into space, all without the Internet or cell phones. It's fun, social, educational, and can be a lifeline during times of need." ARRL But that's great why did I become a ham its simple HAM saves lives! I have spent nearly my entire adult life in the telecommunications and broadcast communications industry in some for much of that time I worked on critical infrastructure projects including the old POTS networks and I participated in countless projects as the technology has progressed into a switch network regulated and required to be there when needed for a disaster to an unregulated all VOIP over the internet-based communications medium. These systems while quite a bit more easily expanded and less reliable at a local or regional level in a medium to a large -scale disaster natural or man-made. This was the original reason I became a ham. Originally living in an area of the country prone to medium to large-scale disasters I wanted to have a communications medium to stay informed or be able to assist where needed. Little did I know what I was getting myself into, the breadth of this hobby knows no bounds, as most of us who are very active in the hobby can cover satellite communications, digital IP Packet and so much more. Even with all of our in-person meetings put on hold ham radio provides a way to keep us all informed and in touch. Always remember most of us a just a key away on any number of

Shack, Continued on page 2

JOIN US

SARA Weekly Information Net
When: Weekly on Wednesdays, 8:00pm – 8:30pm
Where: N5LOC (145.250, PL 141.3)

The Sachse Amateur Radio Association uses the N5LOC repeater in Sachse, TX:

- Frequency: 145.25 MHz
- Shift: -600 kHz
- PL tone: 141.3

The W5SRA UHF Repeater is on the air.
440.350, +5, and 110.9 Tone in and out.

The General Meeting Thursday, October 8, will be Online!

Use this Link:

October General Meeting

Or Join by phone: (US) +1 317-732-7356
PIN: 588 587 249#

Shack, Continued from page 1

repeaters in the Dallas area. Ham radio for me has become a passion so much more than a hobby.

Our W5SRA repeater continues to make strides to the finish line. Don't forget our new repeater, W5SRA (440.350Mhz, +, PL 110.9) is on the air.

With Echolink almost 5 years out of date the club is moving towards AllstarLink as a way for the membership to connect to and use the repeater more to follow as we get the AllstarLink installed and configured for the repeater.

Finally, our October 8th General Meeting @ 19:30 will still be virtual via Google Meet (Meeting Link) Our presentation will be from Special guest Katherine Forson (KT5KMF) will give a presentation on "Youth in Amateur Radio". I hope to hear you on the air and 'see' you at the general meeting on the 8th as always stay safe and healthy.

73, KK6AXF – Greg Kent

Upcoming Education Topics

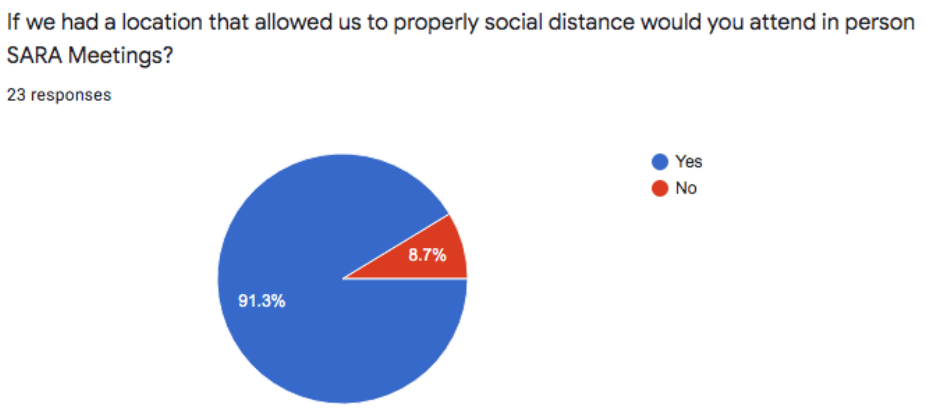
October – Katherine Forsom (KT5KMFwill present on youth in amateur radio

November – Mike McCafferty - Coordinated Fox Hunt

December – Christmas Party (date/location TBD)

Results of the Recent Poll "Are You Ready for In-Person Meetings?"

Survey sent to 43 people 23 responded (21 yes, 2 no)


If we had a location that allowed us to properly social distance would you attend in person SARA Meetings?
23 responses
Yes
No
8.7%
91.3%

UPCOMING EVENTS

Oct 8 - General Meeting

Katherine Forsom (KT5KMF) will be presenting on Youth in amateur Radio.
Link: October Meeting Link

Oct 10- VE Test Session

9:00 – 11:00am. Monthly on the second Saturday. 508 Parker Rd, Wylie, TX 75098. Contact: AC5BC (Bill) 214.500.3472, ac5bc2@verizon.net for additional details. While not required, scheduling with Bill in advance is appreciated!

Oct 17 - ARRLNTX Mentor Fest

MentorFest 2020 CANCELLED

Oct 22 – Board Meeting

Events for 2021

- Foxhunt on weekends? (Prizes?)
- Winter Field Day 1/30-31 2021
- Mentor Fest 4/24 2021
- Summer Field Day 6/26-27 2021
- Ham Radio in the Park (ideas needed)

Wednesday Repeater Net
N5LOC Repeater 145.250, Tone 141.3 @8:00 PM
7 Oct - Linda Smyder, K5LCS
14 Oct - ?
21 Oct - ?
28 Oct - ?

Sunday Public Service Net -
N5LOC Repeater 145.250, Tone 141.3 @9:00 PM

Proposed Changes to the SARA Constitution and Bylaws

The following are excerpts of the Constitution and Bylaws that have been proposed and will be voted on in the upcoming General Meeting:

2.03 Membership Types. Membership privileges and dues are as follows:

f. Founder Member. Awarded to the two founders in recognition for the establishment of this club for the purposes stated herein.

2.07 … Founder members shall have the right to vote on all matters brought before the membership.

2.08 f ...Founder Members are not required to pay any dues for life.

The current SARA Constitution and Bylaws can be found on our website or by clicking the following link:

Sachse Radio Constitution and By-Laws

SARA Club Officers for 2020-2021

Here are the newly elected officers for the Sachse Amateur Radio Association per the election held at the September General Meeting.

President	Greg Kent, KK6AXF
Vice President	John Smyder, W5JWS
Secretary	Johnnie Young, KG5CQO
Treasurer	David Mandala, KG5WFS
Public Information Officer	John Briggs, KC6TVF
Director at Large	Mark Mantooth, KI5CYA
Newsletter Editor	Steve Harbin, W5SOT

RECENT PODCASTS

ARRL On the Air - Episode 9

Thu, 10 Sep 2020

Let's talk about how to properly tune signals on the HF bands, and discover a few transceiver tools that will make listening easier.

Eclectic Tech Episode 17

September 24, 2020

Tagging HF digital modes with RSID; discussing the mysteries of Long Delayed Echoes with Bob Allison, WB1GCM

UPCOMING PODCASTS

Eclectic Tech Episode 18

October 8, 2020

A revolutionary new RF shielding material; storing software in the Arctic; a discussion with Al Rabassa, NW2M, about the importance of fan cooling.

Podcasts are available on iTunes (iOS) and Stitcher (Android), as well as on Blubrry -- On the Air | Eclectic Tech.

Field Trip to Kansas

Last week I took a trip to Kansas. I brought my field radio "go kit" – a 20 meter, 2 watt CW transceiver, mini key, wire, a long wire antenna tuner, and an SWR checker. Something to do.

The location was about as bad as it can get. I was essentially in a suburban hole, with other houses higher than me on three sides. I also had to be sensitive to the "HOA issue" – prying neighbors, and no visible antennas. After much agonizing, I decided to string a very thin black wire from the operating position on a first floor porch to the ceiling of a second floor balcony. The wire tuned up, so I was in business – sort-of.

Propagation was very poor, as it has been more often than not for months. The West-facing porch was overrun by the sun in the afternoons, making it unbearably hot. That limited me to operating in the morning – not the best time for 20 meters.

In 6 hours of operating – two mornings at 3 hours apiece – I only had one solid QSO: with a station in New Mexico. The distance was 875 miles, west – the only direction that wasn't blocked. Welcome to QRP – it can be feast or famine, just like fishing. Next time I'll bring a 40 meter radio.

-

Back home, and I'm wiring up a 30 year old linear amplifier that I picked up at an estate sale. Some things I have learned so far:

- Everything has to be sized/rated for the higher power of the amplifier. That includes the electric service to the shack, the antenna tuner, the coax, the lightning arrestor, the balun…
- More power means a new RF exposure and safety assessment. Changes may have to be made as a result.
- Keying delay is a critical item. Linear amplifiers often have mechanical keying relays in them. Those things don't open and close instantaneously. Delay has to be built into the system to allow the keying relay in the amplifier to close prior to the application of drive power from the transceiver.

In my transceiver, the delay is menu configurable. In radios without this feature, you may have to use an interface box that introduces the proper delay.

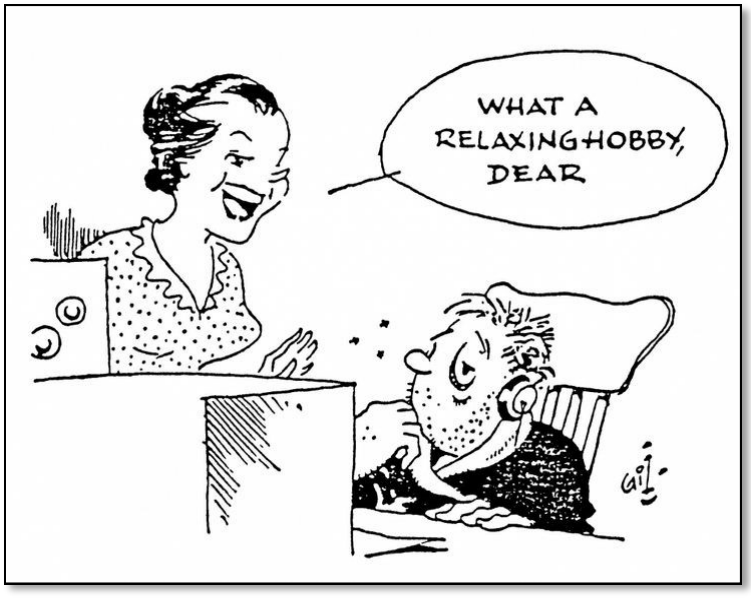
-

We could all use 100 acres at the highest point in the county. Most of us won't ever get that, so we make do with what we have. What I learned in Kansas is: if your lot is small, in a hole, and you send money to an HOA every month… creative thinking may be required.

One of my CW buddies has his HF shack in his car. The car is old – very little resale value - and he has drilled holes in it for hooking up 110 VAC shore power, antenna mounts, etc. Another friend only operates portable QRP. His shack is a backpack and a picnic table or a park bench. That fellow is 500 miles north of here, and we talk (CW) on the radio about once a month. He's out there in the dead of winter, pounding a J-38 leg mount key.

My best day is running QRP CW from a local park pavilion. My car is getting older, though – and I'm starting to think about where I'm going to drill the holes.

- Jim Eatman KG5WAW



ARRL Contest Update

IN THIS ISSUE - 9/30/2020

New HF Operators: SST, Another Grid-Square Based Digital Contest, QSO Parties

Contest Summary

News: California QSO Party Changes, Oceania DX Contest Times, Virtual SMCC Fest, QSOMap, New *WSJT-X* 2.3.0, and more

Word to the Wise: Gimmick Capacitor

Sights and Sounds: Tips for Being a Better Single Op Contester, New Tesla Battery Technology

Results: NA Sprint Preliminary Results

Operating Tip: Your Exchange Should Be Correct and Not Be Unique

Technical Topics and Information: Antennas, Radio Resilience, Push-Pull Amplifiers

Conversation: Remote Hands Make Light Work

Contests

Log Due Dates

Are you involved in or interested in Contesting? The ARRL Contest Update is a weekly publication from ARRL that ARRL members can elect to have sent by email, and past issues are available on the ARRL Website and can be accessed by clicking the banner at the top of this article!

"Would you believe, my horoscope said that today I would have an unexpected close encounter!"

NEWSLETTER ARTICLES

Working on a project that you think the club members would be interested in? Read a good HAM related article somewhere? Send articles to Steve, W5SOT, at: newslettereditor@sachseradio.org

SARA BRANDED GEAR

We now have two suppliers for SARA gear. Both of these companies have our logo on file.

HamThreads will do hats, shirts, jackets and vests. They can do single items. HamThreads is in Saginaw.
https://www.hamthreads.com

Cactus Awards is local to Wylie and they specialize in Awards, Trophies, Plaques, Engraving and Embroidery as well as Tee-Shirt printing. Minimum order for some clothing is 3.
http://www.cactusawards.com

SARA NAME BADGES

If you need a SARA name badge please go to:
https://namebadge.com/sachse

WHAT ARE YOU WORKING ON?

I know that many of us have projects going on that other in the club would love to hear about. Consider writing it up for the newsletter. …

Send your submissions to newslettereditor@sachseradio.org by the third Thursday of the month to be included in the next issue of *SACHSE SKYWAVES !*

AREDN® for Sachse CERT & RACES/ARES

The purpose of this document is to help the reader understand what AREDN® is and how it can be leveraged to support city first responder agencies during major events that, could, negatively impact the city of Sachse and surrounding areas.

By John Smyder

W5JWS@arrl.net

Overview

This document was prepared to help readers understand what AREDN® is as it relates to Amateur Radio as well as outline a number of functionality use cases that could benefit served agencies (e.g. Police and Fire departments) leading up to and during certain events that could or have affected the community.

This document, when completed, will also be leveraged to support grant requests to create an AREDN® capability in the city of Sachse and continued improvement and expansion for that capability.

What is AREDN®

AREDN® is an acronym that stands for "Amateur Radio Emergency Digital Network" that provides a means for Amateur Radio operators to create high-speed ad hoc data networks for use in community service oriented communications. The community service functions served are both, emergency and community activity functions that require, either, a stand-alone network that is independent of any public network or an emergency network that has the capability to tie in to other AREDN® networks that provide a 'back haul' capability allowing internet access to an area that may have its networking infrastructure compromised or damaged.

AREDN® leverages commercially available network hardware that can be reprogrammed to function in the Amateur Radio bands, primarily in the 2.4 and 5GHz ranges.

AREDN® is a self-healing, mesh network. It is self-healing in that when an attached node fails or has a compromised signal all nodes that were connected to that failed/compromised node will search for another reliable path to connect. Since there are several possible paths in a mesh network that contributes to its self-healing nature.

AREDN® High Level Architecture

Figure 1, below, is a depiction of how a large AREDN® network might look.

More information about this architecture can be found at the AREDN® documentation web site (link).

An explanation of each of the depicted network link types can be found at the provided website link above.

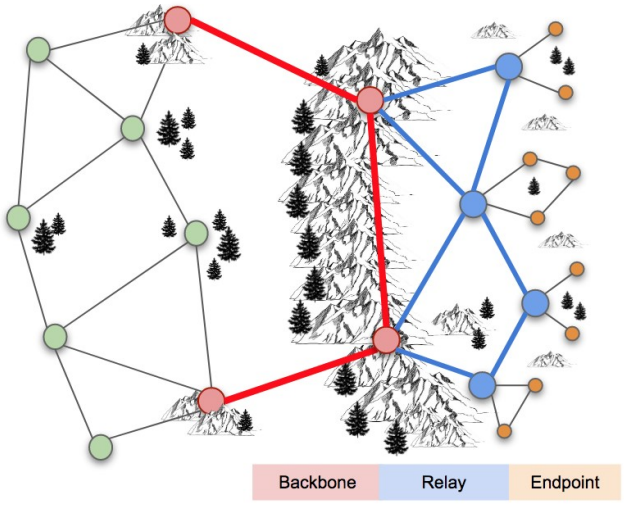


Figure 1

Figure 1 courtesy of AREDN® website.

Sachse Specific Architecture - Simple Diagram

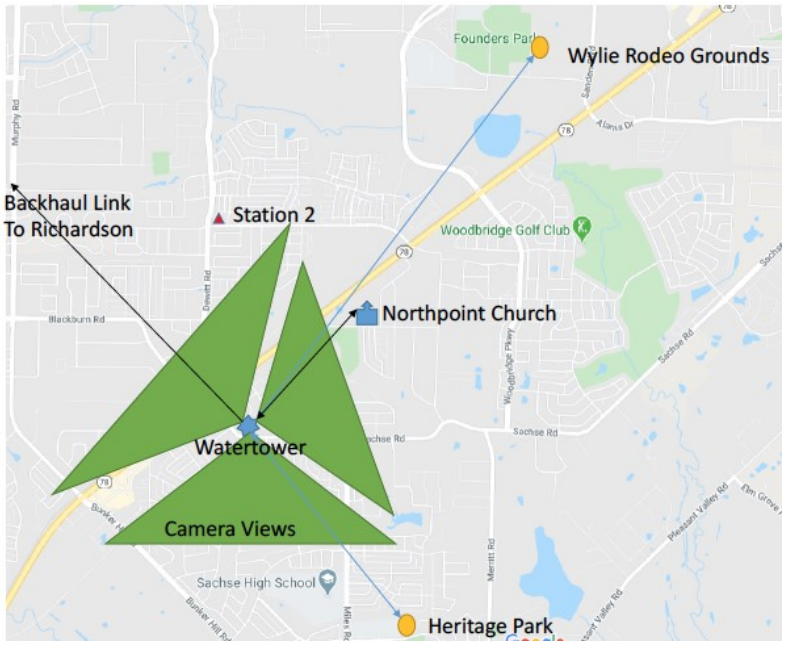


Figure 2 - Sachse Simple Diagram

Recommended Equipment List

Radios & Antennae*

Name	Model
Ubiquiti airMax 2GHz Base Station	RocketM2
Ubiquiti airMax 2GHz Sector Antenna	AM-V2G-TI-120
Ubiquiti airMAX Omni 2.4GHz, 13 dbi Antenna	AMO-2G13
Ubiquiti AirGrid 2.4GHz 20 dbi Antenna	AG-HP-2G20
Ubiquiti airMAX Bullet M2GHz Radio	BulletM2-HP
Ubiquiti 5 GHz High Performance airMAX® AC Bridge	PBE-5AC-Gen2
Ubiquiti Rocket - Powerful airMAX® AC Base Station	R5AC-Lite
Ubiquiti 5GHz Directional Antenna	LBE-M5-23

*Items identified in the Radio & Antennae section will require multiples of those items to support a 360-degree view as depicted in Figure 2 above.

Cameras

Name	Model
Ubiquiti UniFi Video G3 Flex Indoor/Outdoor PoE Camera	UVC-G3-FLEX
Camera Mounting Bracket Kit	KC6TVF Brand

Power, Wiring, Miscellaneous

1 Amp Fast-Acting Automotive Blade Fuses
12AWG coper wire Powerwerx compatable.
1375055-4 - TE Connectivity Category 6 SL Series 110 Connect Modular Jack
Cat7 Ethernet Cable 1.5 ft STP - 10 Gigabit 600MHz
CERRXIAN CNLINKO RJ45 Femle to Female Panel Mount Metal Shell Ethernet Industrial Waterproof Connector Combo with Cap
ExpertPower 12V 7 Amp EXP1270 Rechargeable Lead Acid Battery Dimensions: 5.9 x 2.5 x 3.7 inches
F-Type Terminals 12AWG
In Line Fuse Holder 30A-MAX Spade Fuse and 12AWG Cable
Outdoor Ethernet 25ft Cat6 Cable,
Port Keystone Jack Surface Mount Box
Powerwerx PP30-10 30 Amp Unassembled Red/Black Anderson Powerpole Connector
Regular 55362 Battery Box-Group 24
Renogy 100 Watt 12 Volt Extremely Flexible Monocrystalline Solar Panel
Renogy Wanderer 10 Amp 12V/24V PWM Negative Ground Solar Charge Controller Regulator Dimensions: 4.7 x 3.0 x 1.1 in / 119x75x27.5mm
1 Amp Fast-Acting Automotive Blade Fuses
PBL Light Stands 10 Foot, Pro Heavy Duty Spring Cushioned, All Metal Locking Collars, with Carry Bags Black Finish by PBL
Speaker Stand, Black, 40X4.80X5.50 (PSTND25)

System Capabilities

The AREDN® system, as architected for Sachse, will have the ability to link in to neighboring city AREDN® systems that also have 'back haul' capabilities. A system with a 'back haul' is one that connects to the internet thereby allowing the AREDN® network to provide its served area with internet access when that locales internet may be affected by a major event. The AREDN® network, as previously mentioned, would then be capable of providing served agencies with access to a) other sites within the city of Sachse that have AREDN® nodes and b) internet access, via another local cities mesh network.

Integration with Other NTX AREDN® Nodes

Necessary Protocols Allowing Inter-connect

Amateur Radio Clubs within the cities of Dallas, Richardson, and Plano are working to create an AREDN® mesh network for their communities that have 'back haul' capabilities. The Sachse Amateur Radio Association has taken steps to bring these groups together to begin developing some standard and agreed to protocols allowing neighboring cities that may have experienced an event to have 'back haul' access without compromising their owns cities capabilities in the event of a widespread event.

As those protocols are developed, and agreed to, they will be referenced appropriately in this document.

AREDN® Use Cases

Weather Events

Sachse ARES/RACES

The Sachse ARES/RACES Radio Officer (RO) can leverage properly located and oriented AREDN® networked cameras to monitor weather coming in to the Sachse area. This capability, combined with real time ground truth provided by Skywarn operators, via Amateur Radio, and radar information allows the RO to advise city leadership of potential weather driven emergencies.

The AREDN® system has the ability to provide real time video via integrated web cameras. The real time video can not only be monitored by the CERT team in the CERT Trailer, but also provide that feed back to city Emergency Management location, allowing them to make well informed decisions that affect citizens of Sachse.

Community Event Examples

Red, White, and Blue

The AREDN® system will allow the CERT team to provide real-time weather assessments when combined with the CERT trailers on board over the air TV capabilities. Those assessments will allow event coordinators to ensure public safety should there be a nearing weather event.

The AREDN® system could also be used to provide a real time video feed from the event to an offsite location such as the EOC, allowing city public service teams to evaluate and monitor crowds more effectively.

Cars Under the Stars

The AREDN® system could be used at this event in the same fashion as described for the Red, White, and Blue.

Wylie Rodeo (Mutual Aid Event)

Sachse CERT has used an AREDN® configuration that includes web cameras to augment a Centralized Command Center Trailer (CCCT). The web cameras strategically placed around the venue combined with over the air TV capabilities and cell phone data to gather weather information, allowed the personnel in the CCCT complete situational awareness to provide real-time information to the served agencies (in this case the Wylie FD/PD).

Other Community Events

There may be other community events identified in the future that would benefit from the use of the Sachse AREDN® network. The additional events will be evaluated for potential benefits from the use of AREDN® as requested by the city of Sachse Emergency Management team.

IARU Region 1 President Sounds Alarm on Wireless Power Transfer for Vehicles

International Amateur Radio Union (IARU) Region 1 President Don Beattie, G3BJ, wants to raise greater awareness regarding the interference potential of Wireless Power Transfer for Electric Vehicles (WPT-EV). He is urging IARU member-societies to contact national regulators to make them aware of the technology's potential for "RF pollution." Beattie notes that WPT-EV chargers can run as much as 20 kW.

WPT-EV was on the agenda for World Radiocommunication Conference 2019 (WRC-19). The International Telecommunication

Union (ITU) Radiocommunication Sector (ITU-R) conducted studies to assess the impact of WPT-EV on radiocommunications and suitable harmonized frequency ranges. Those ITU-R studies identified the 19 - 25 kHz band, as well as bands in the 50 kHz and 60 kHz range, for high-power WPT-EV, and the 79 - 90 kHz band for medium-power WPT-EV. The consensus of WRC-19 delegates was to make no changes in the ITU *Radio Regulations* with respect to WPT-EV.

The Netherlands' IARU member-society VERON has posted the text (translated into Dutch) of Beattie's remarks on the subject.

"The discussions about WPT-EV have reached a point where they are moving from the technical to the political arena," Beattie said. "Discussions with a national regulator indicate that we must now take action at the national level. The amateur service, but also other telecommunication services, will experience the consequences of WPT-EV."

Beattie urged member-societies in Region 1 to contact national regulators, preferably in person, to explain why radio amateurs are so concerned. He pointed out that long charging times in populated areas could generate harmonics that make radio communication very difficult. "Models show that this also applies to the wider environment of a WPT-EV installation," Beattie said. "Broadcasters, stationary, and mobile services share these concerns" and provided input to CEPT Electronic Communications Committee Report 289.

Beattie noted that the WPT-EV discussion has been going on for a long time. The technology is similar to that used for wireless charging of cell phones.

"The wireless charging of electric cars is done with large coils," he explained. "One of them on the ground under the vehicle, the second in the car. Typically, about 22 kW is transferred wirelessly through those coils. This is done using frequencies between 79 and 90 kHz. Technical and operational standards for WPT-EV are under development."

WPT-EV developers are seeking noise level limits that are some 30 - 45 dB above current noise levels, Beattie said. "Limits that have a serious negative effect on the radio spectrum," he asserted.

"In the interests of the future of amateur radio, we need to get the attention of national regulators," Beattie concluded. "This is about the future of amateur radio!"

Sachse Amateur Radio Association
Meeting Minutes
September 10, 2020

Start time: 7:30 pm
Location: Via Google Meet
Facilitator: John Smyder (W5JWS) President

Pledge was led by **John Smyder (W5JWS)**

Opening

John Smyder (W5JWS) President

Everyone introduced themselves and gave their call sign

Johnnie Young (KG5CQO)

Listed each attendee as they introduced themselves.

Attendees

15 members
2 guests

President's report – John Smyder (W5JWS)

Next board meeting is Sept 24th location TBA
Next general meeting is Oct 8th, 7:30 pm,
Very possible in person with social distancing
Watch e-mail, newsletter, and Facebook for more info
September Elections Committee
Thanks to
Rich Lakin, AG5PM and
Jeff Feldman, KI5DDX
Make sure your e-mail ballot is submitted by the break
Voting will be turned off at the break

Vice-President – Gregg Kent (KK6AXF)

- Activities committee
  - Need ideas for social distancing
  - Other ideas

Secretary – Johnnie Young (KG5CQO)

- Minutes for the August meeting are posted on the web site, and published in the newsletter
- Motion to accept – **David Mandala (KG5WFS)**
- 2nd to accept motion – **Mark Mantooth (KI5CYA)**
- No one opposed
- Motion passed

Treasurer – David Mandala (KG5WFS)

- Financial sheet for September updated to September 10th
  - Review of finances were presented
- Motion to accept – **John Briggs (KC6TVF)**
- 2nd to accept motion – **Johnnie Young (KG5CQO)**
- No one opposed
- Motion passed

Public Information Officer – John Briggs (KC6TVF)

- Saturday – QSO breakfast @ Woodbridge Cafe @ 8:00
  - In person on hold
  - Café is open but no large groups
  - Small groups of 4 are allowed
- Next VE Session – September 12th, Wylie Masonic Lodge
- Need volunteers for NCS repeater
  - September 16th **Steve Harbin – W5SOT**
  - September 23rd **John Smyder – W5JWS**
  - September 30th **Johnnie Young – KG5CQO**
  - October 7th **Linda Smyder – K5LCS**
- Simplex Net temporarily suspended while we work on some operating scenarios

Sachse Amateur Radio Association
Meeting Minutes
September 10, 2020

Newsletter editor – Steve Harbin (W5SOT)

News letter was sent via e-mail and is on the SARA web site
Distribution #~~115~~116
Submissions due by the 1st day of the month
Goal—to have the newsletter out a week prior to the general meeting
Always can use news articles and ideas
Projects you are working on or have completed
Events and activities related to Ham Radio
Articles you have read in other publications
Take pictures at all events & send to the Newsletter editor **Steve Harbin (W5SOT)** at newslettereditor@sachseradio.org
The newsletters are really good when members send in articles
Remember the newsletter goes beyond the membership

Mark Mantooth (KI5CYA)

Are the presentations available?

John Smyder (W5JWS)

There is a link on the Web Site to club presentations

Director-at-Large – Mark Mantooth (KI5CYA)

Did the presentation on Allstar at last meeting
Anyone who needs help or has questions about setting up
Contact **Mark Mantooth (KI5CYA)** at KI5CYA.TX@gmail.com

Education Report – John Smyder (W5JWS)

Ideas for upcoming meetings
Please help with subject matter

Sachse Amateur Radio Association
Meeting Minutes
September 10, 2020

Upcoming General Meeting Subject Plans
- Sept – BOD elections
- Oct – Youth in Amateur Radio – **Katherine Forson – KT5KMF**
- Nov – Coordinated fox hunt – **Mike McCafferty – N5MMC**
- Dec – Christmas Party

Make sure your votes are in;
Break: 8:17 PM
Turning off voting

Board of Directors Election Results – **John Smyder W5JWS**

President – **Greg Kent – KK6AXF**
Vice-president – **John Smyder – W5JWS**
Secretary – **Johnnie Young – KG5CQO**
Treasurer – **David Mandala – KG5WFS**
Public Information Officer – **John Briggs – KC6TVF**
Newsletter Editor – **Steve Harbin – W5SOT**
Director at large – **Mark Mantooth – KI5CYA**

Congratulations to all!

Guest Speaker **Steve Lott Smith – KG5VK**
North Texas Section Manager
Slide presentation is on the SARA web site

Brought the members up to date on the progress made in ARRL
- The West Gulf Division Round Table had 12 clubs represented
- The FCC will start to charge $50 for an Amateur Radio License
- ARRL and ARRL NTX Speaker Bureau discussed the need for an area where club officers and section managers and staff could meet, post, discuss
- Did a survey for Section Level Round Table meets (monthly or quarterly and day of choice)

The $50 fee would be for 10 years.
If you feel this is too much send a response to Docket 20-270

We are presently rebuilding the web part of the NTX section with a new design
If you want a preview go to arrlntx.k8amh.com
Should be up by the end of the month
ARES section will stay the same but will continue to update

ARRL NTX Discussion Area to help us do more
Groups IO – for club officers and section manager staff

Can also contact **Steve Lott Smith KG5VK**
318-470-9806
KG6VK@arrl.org

Section Level Round Table Discuss with Club Officers to address issues

Tower Safety
Have lost 6 amateur operators and 2 serious injuries this year
Need to review good safety tower practices
Safety equipment
Proper harness
Boots
Helmet with chin strap
Tower inspection

Thanks **to Steve Lott Smith – KG5VK** for this presentation

John Briggs – KC6TVF won the door prize a book about Portable Operating

Greg Kent --- KK6AXF made a motion to update the club's Bank Signature cards
John Smyder --- W5JWS 2nd the motion
No objections
Motion carried

New mailing address has been given out

Adjourn;
Motion – **John Briggs – KC6TVF**
2nd – **David Mandala – KG5WFS**
All agreed
Adjourned 8:30 PM

Adjourned: 8:30 pm
Motion – **David Mandala – KG5WFS**
2nd the motion – **Greg Kent – KK6AXF**
No one opposed
Motion passed

Sachse Amateur Radio Association Weekly Repeater Net Script

Version: 6.0 - March 1, 2020

Good evening and welcome to the "*Ham Radio in Sachse*" Weekly Information Net. My name is (*name, call sign*), and I will be your net control this evening. (***pause)*** This net is heard every Wednesday evening at 8:00pm on the N5LOC repeater, on frequency 145.250, using a PL tone of 141.3. All licensed amateurs are invited and encouraged to participate, whether you are a club member or guest. (***pause)***. This is a Directed Net. Please do not transmit unless directed to do so by Net Control. If the net should go down, everyone should switch to simplex frequency 146.400, with no PL tone or offset. Also, if at any time, you have an emergency to report, break in by saying "Priority" or "Emergency" followed by your call sign and the net will stand by. An emergency is defined as the imminent threat to life or property. **Is there any emergency, priority or time sensitive traffic at this time?** ***Pause***

Check-Ins:
We will begin by taking check-ins, three at a time. If you would like to check into this net, please give your call sign phonetically, your name and repeat your Call Sign alphanumerically slowly, so Net Control can write it down. I will take three check-ins now.
(*write down and read back call signs of check ins*). (Remember: Echo Link users (if any) need a few extra seconds to respond). (You might ask if there are any Echo Link users who would like to check-in.)

Club Announcements: ***Now is a good time for Net Control to ID.***
Our first topic will be announcements from club officers. Any club officer on the net with an announcement, please give your call sign now.

Member & General Comments: ***Now is a good time for Net Control to ID.***
Our next topic is member & general comments. Any member of the Sachse Amateur Radio Association, or anyone else on this net, who would like to make a comment, please give your call sign now.

Tech Talk: ***Now is a good time for Net Control to ID.***
Now it is time for Tech Talk. You might ask any questions you have of a technical nature regarding amateur radio or computers. You might share any information or comments that you think would be valuable for the group. If anyone has an item for Tech Talk, please give your call sign now.

Swap Shop: ***Now is a good time for Net Control to ID.***
The next topic is Swap Shop. Anyone wishing to buy, sell, trade, or give away items related to ham radio or computers is invited to do so. Please do not haggle over price on the air. If anyone has an item for Swap Shop, please give your call sign now.

Education: ***Now is a good time for Net Control to ID.***
Now we would like to know if anyone has an idea for an Education Presentation. Anyone who wants to suggest an item for a future presentation, or who has a presentation to share this evening, please give your call sign now.

How Was Your HAM Week: ***Now is a good time for Net Control to ID.***
Now for the fun part of our hobby, "***How Was Your HAM Week***". This exercise allows any station to share anything related to HAM Radio. Example topics can be "DX'ing Observations", "Experiences", "Challenges", "Lesson-Learn with your equipment", "Victories on a project" or even something you have learned from a "not so successful project". Whether you are a member or guest, this exercise is voluntary. No station is under obligation to share anything. As your Net Control, I will start by briefly sharing my "Ham Week". (Share something you recently did.) If any station would like to share their "Ham Week", simply give your Call Sign and Net Control will recognize your station and give you the platform to share. (*Net Control – provide positive feedback on their topic.)*

Late Check-Ins: ***Now is a good time for Net Control to ID.***
Before we end this Net, I would like to take late check-ins. If there are any late check-ins, whether RF or Echo Link, please give your call sign and name slowly and clearly. (*write down and read back each call sign*).

Last Call:
This is now the last call for any station that might have any comments? Please give your call sign.

Wrap-Up: ***Now is a good time for Net Control to ID.***
This concludes the "Ham Radio in Sachse" Weekly Information Net. If you would like more information about the Sachse Amateur Radio Association, please visit our web site at www.sachseradio.org. This is (*call sign*) and we now return the N5LOC repeater to its normal use.

Sachse Amateur Radio Association Simplex Net Script

Version: 6.2 - April 25, 2020

Good evening and welcome to the "*Ham Radio in Sachse*" Simplex Net. My name is (*name, call sign*), and I will be your net control this evening. This net is heard every 3rd Tuesday evening at 7:30 pm on a frequency of 146.40 Simplex. Therefore, there is no need for an offset or PL tone. All licensed amateurs are invited and encouraged to participate, whether you are a club member or guest. This is a Directed Net. Please do not transmit unless directed to do so by Net Control. At the end of check-ins, I will ask for relays of check-ins I acknowledged, that you did not hear, and check-ins that I did not hear. Near the end of the program, I will ask for a signal report. If at any time, you have an emergency to report, break in by saying "Priority" or "Emergency" followed by your call sign and the net will stand by. An emergency is defined as the imminent threat to life or property. **Is there any emergency, priority or time sensitive traffic at this time?** ***Pause—***
hearing none...

Check-Ins:
We will begin by taking check-ins, three at a time. If you would like to check into this net, please give your call sign phonetically, your name and repeat your call sign alphanumerically, so Net Control can write it down. Please come now in groups of 3.
(*write down and read back call signs of check ins*).
When there are no more check-ins, go through the list and ask if anyone heard a check-in that you did not acknowledge or if there is a check-in that they did not hear.
You may have to pick a relay person for the night.
If you had to pick a relay person or persons, then remember to stop after each conversation and have the relay person pass that information on.

Club Announcements: ***Now is a good time for Net Control to ID.***
Our first topic will be announcements from club officers. Any club officer on the net with an announcement, please give your call sign now.

Member & General Comments: ***Now is a good time for Net Control to ID.***
Our next topic is member & general comments. Any member of the Sachse Amateur Radio Association, or anyone else on this net, who would like to make a comment, please give your call sign now.

Tech Talk: ***Now is a good time for Net Control to ID.***
The next topic is Tech Talk. Ask any questions you may have of a technical nature regarding amateur radio or computers. Feel free to share any information or share any comments that you find to be valuable with the group. If anyone has an item for Tech Talk, please give your call sign now.

Education: ***Now is a good time for Net Control to ID.***
Our next topic is Education. Anyone who has an education presentation they would like to make or want to suggest an item for a future presentation, please give your call sign now.

Signal Reports: ***Now is a good time for Net Control to ID.***
Next, we will discuss signal reports. How does net control and/or the check-ins come across. I will now go down the list of check-ins so everyone can give a response. Please use the plain language radio checks provided on the Sachse Radio web page. (For example; net control was loud and clear.) Also please include you r power levels at the end of your signal report.
(You start)

Late Check-Ins: ***Now is a good time for Net Control to ID.***
Next, Net Control would like to take late check-ins. If there are any late check-ins, please give your call sign and name slowly and clearly.
(*write down and read back each call sign*).
Remember to ask if there are any check-ins you did not acknowledge or check-ins that others did not hear.

Last Call:
Before we conclude the net, are there any Stations wishing to report into the Net and/or have any comments?

Wrap-Up: ***Now is a good time for Net Control to ID.***
This concludes the "Ham Radio in Sachse" Simplex Net. If you would like more information about the Sachse Amateur Radio Association, please visit our web site at www.sachseradio.org. This is XXXXXXX and we will now return this frequency to its normal use.

Sachse Amateur Radio Association
Sachse, Texas 75048-3696
www.sachseradio.org
kf5nbo@gmail.com

Date: _____

Type of Application: New Member ☐ **or Renewal** ☐

Your Call Sign:_____ **Your License Class:**_____

Your Name:_____ **Spouses Name:**_____

Address:_____

City:_____ **State:**_____ **Zip:**_____

Home Phone:_____ **Work Phone:**_____

Cell Phone:_____ **Email:**_____

Membership Types: Please check only one option below:

☐ **Regular:** A regular member shall be any FCC licensed amateur radio operator who does not fall under the special provision of an associate or student membership. Regular member dues are $25.00 per year unless prorated (see below).

☐ **Family:** A family membership shall be any FCC licensed amateur radio operators and non-licensed family members interested in amateur radio who live in the immediate household. Family member dues are $30.00 per year unless

☐ **Associate:** An associate member shall be any person maintaining membership to support the association but who does not hold a license as a radio amateur. Associate member dues are $10.00 per year and are not prorated.

☐ **Student:** A student member shall be any FCC licensed amateur radio operator who is currently enrolled as a full-time student, is 18 years of age or younger, and is not otherwise eligible to be included in a family membership. Student member dues are $10.00 per year and are not prorated.

If selecting Family membership, please list the family members covered by this application.

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Membership Dues: (Please check only one)

Dues are initially paid upon joining the association. Renewal dues are paid no later than the September meeting each year. A new application must be submitted each year as well. Dues are reduced (prorated) for Regular and Family members (only) who join or renew their membership after Dec 31st:

- ☐ Joining Sep 1 thru Dec 31, pay $25.00 for Regular dues, or $30.00 for Family dues.
- ☐ Joining Jan 1 thru Mar 31, pay $18.75 for Regular dues, or $22.50 for Family dues.
- ☐ Joining Apr 1 thru Jun 30, pay $12.50 for Regular dues, or $15.00 for Family dues.
- ☐ Joining Jul 1 thru Aug 31, pay $6.25 for Regular dues, or $7.50 for Family dues.

TOTAL DUE: $_____

Are you a current member of the ARRL? YES ☐ or NO ☐ (please choose only one).

By submitting this application, either by hand or any electronic means, you hereby agree to abide by the rules and regulations of the Sachse Amateur Radio Association.

Signature: _____